

ABSTRACT

Disclosed is an apparatus for detecting photons of a light beam (1) emanating from a spatially limited source (2), especially in a fluorescence microscope. Said apparatus comprises a detection device and is characterized in that said detection device encompasses at least two detectors (7) while a component (3) is provided in the path of the light beam (1), by means of which the light beam (1) can be split such that the photons are distributed across the detectors (7) for detection purposes in order to increase the maximum counting rate that can be processed by the detection device.